

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 396 (MASSACHUSETTS AVENUE) AND FALMOUTH ROAD/BALTIMORE AVENUE IN MONTGOMERY COUNTY, MARYLAND. MD 396 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA FIVE-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH THE MD 396 APPROACHES OPERATING CONCURRENTLY AND THE FALMOUTH ROAD/BALTIMORE AVENUE APPROACHES OPERATING CONCURRENTLY.

EXCLUSIVE/PERMISSIVE LEFT-TURN PHASING IS PROVIDED FOR THE EASTBOUND MD 396 APPROACH.

AN ALTERNATE PEDESTRIAN PHASE IS PROVIDED ACROSS THE EAST LEG OF MD 396.

TYPICAL MESSAGES FOR ACCESSIBLE PED SIGNALS

TYPICAL INTERSECTION. STREETS AT 90 DEGREES

WAIT: "WAIT TO CROSS MASSACHUSETTS AVENUE AT FALMOUTH ROAD" *

WALK: RAPID TICK

WALK: "WALK SIGN ON TO CROSS MASSACHUSETTS AVENUE"

* MESSAGE USED IF DISTANCE FROM NEAREST PUSHBUTTON FOR PERPIDICULAR CROSSING IS < 10'

** MESSAGE USED IF CROSSWALK DIVERGES FROM OR CONVERGES WITH PARALLEL TRAFFIC

NOTE: MESSAGES FOR INTERSECTION CONFIGURATIONS, VARYING FROM THE ABOVE ARE TO BE APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH ONE (1) FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIERS, SYSTEM PACKAGE, VIDEO INTERFACE EQUIPMENT (1-4 CAMERAS) AND ASSOCIATED HARNESSES HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET.

MAINTENANCE OF TRAFFIC

THE FOLLOWING TRAFFIC CONTROL STANDARDS SHALL BE REFERENCED FOR THE PROJECT. ADDITIONAL TRAFFIC CONTROL STANDARDS MAY BE USED AS DIRECTED BY THE ENGINEER.

STANDARD NO. MD-104.04-01 (SHOULDER WORK)

STANDARD NO. MD-104.04-13 (LEFT TURN BAY CLOSURE)

STANDARD NO. MD-104.04-03 (LEFT LANE CLOSURE)

STANDARD NO. MD-104.04-05 (RIGHT LANE CLOSURE)

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. JEFF WENTZ, MONTGOMERY
PHONE: (301) 513-7318
ASSISTANT DISTRICT ENGINEER - TRAFFIC

MR. KAMAL HAMUD
MONTGOMERY COUNTY TMC
PHONE: (240) 777-8761

MR. WAYNE MOWDY
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (301) 513-7305

MR. RICHARD L. DAFF, SR.
CHIEF, TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630

MR. AUGIE REBISH
DISTRICT UTILITY ENGINEER
PHONE: (301) 513-7350

EQUIPMENT LIST "A"		
A. EQUIPMENT TO BE SUPPLIED BY THE SHA		
ITEM NO.	QUANTITY	DESCRIPTION
9016	1 EACH	FOUR-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER
9044	1 EACH	EIGHT-PHASE, FULL-TRAFFIC-ACTUATED CONTROLLER WITH SYSTEM PACKAGE HOUSED IN A NEMA SIZE "6" BASE MOUNTED CABINET
9086	1 EACH	VIDEO INTERFACE EQUIPMENT: 1-4 CAMERAS
9571	46 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF :
	4 EACH	D-3(1) SIGN (VARIABLE x 16 IN.) DUAL FACED - MAST ARM MOUNT
	2 EACH	R10-3(1) SIGN (9 IN. x 15 IN.) TO READ "PUSHBUTTON TO CROSS MASSACHUSETTS AVENUE"

EQUIPMENT LIST "C"

C. EQUIPMENT TO BE REMOVED AND RETURNED TO SHA

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL AUXILIARY EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

EQUIPMENT LIST "B"		
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR		
ITEM NO.	QUANTITY	DESCRIPTION
1003	1 EACH	MAINTENANCE OF TRAFFIC
2001	7 C.Y.	CLASS 2 EXCAVATION
2002	7 C.Y.	TEST PIT EXCAVATION
5004	300 L.F.	12 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5005	120 L.F.	24 INCH HEAT APPLIED WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKINGS
5007	420 L.F.	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS - ANY WIDTH
6001	100 L.F.	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
6002	465 S.F.	5 INCH CONCRETE SIDEWALK
8001	1 EACH	2 WIRE CENTRAL CONTROL UNIT
8006	2 EACH	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250 WATT HPS LAMP & LUMINAIRE
8007	2 EACH	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION & SIGNS
8008	2 EACH	BREAKAWAY PEDESTAL POLE (ANY SIZE)
8013	2 EACH	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEADS
8015	1 EACH	MAST ARM POLE & 38 FT MAST ARM ANY 'T' DIMENSION
8018	1 EACH	MAST ARM POLE & 50 FT MAST ARM ANY 'T' DIMENSION
8019	4 EACH	MICROLOOP PROBE (ANY LENGTH) LEAD IN CABLE UP TO 1000 FT
8021	1 EACH	REM & DISPOSE MAT & EQUIP PER ASSIGN
8024	1 EACH	TWIN MAST ARM POLE & 50 FT/70 FT MAST ARMS ANY 'T' DIMENSION
8025	3 EACH	VIDEO DETECTION CAMERA & CABLE UP TO 500 FT
8026	25 L.F.	1 INCH DETECTOR SLEEVE GALVANIZED OR FLEXIBLE LIQUID TIGHT
8030	110 L.F.	CABLE- 1 CONDUCTOR, 250 KCML, CU, USE
8031	415 L.F.	DISCONNECT, PULL-BACK & REROUTE CABLES
8033	75 L.F.	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - BORED
8034	150 L.F.	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - SLOTTED
8035	775 L.F.	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCHES - TRENCHED
8037	100 S.F.	DETECTABLE WARNING SURFACES
8038	46 S.F.	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
8040	310 L.F.	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8041	1 EACH	WEATHER HEAD, 3 INCH
8042	1 EACH	METERED SERVICE PEDESTAL EMBEDDED
8044	55 L.F.	ELECTRICAL CABLE 1-CONDUCTOR NO. 4 AWG-THHN/THWN
8046	9 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8050	31 EACH	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
8052	4 EACH	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8054	315 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
8056	400 L.F.	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
8057	1015 L.F.	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8058	340 L.F.	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG) TC
8060	45 L.F.	SAW CUT FOR SIGNAL (LOOP DETECTOR)
8065	1 EACH	INSTALL CONTROLLER AND CABINET - BASE MOUNT

TOD NO: XX444-10
SHA NO: MOS26A55/B55
MD 396@ FALMOUTH
RD/BALTIMORE AVE

SHA

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 396 (Massachusetts Avenue) and
Falmouth Road /Baltimore Avenue

GENERAL INFORMATION SHEET - GI-2

SCALE NONE ADVERTISED DATE 108/2008 CONTRACT NO. XX4445185

DESIGNED BY S. Bloss

COUNTY Montgomery

DRAWN BY S. Bloss

LOGMILE 15039601.72

CHECKED BY N. Leary

TIMS NO. H569

F.A.P. NO.

TOD NO.

TS NO. 4639A

DRAWING - OF

SHEET NO. 3 OF 3

BY: jraemussen

WR&A

Whitman, Requardt and Associates, LLP
Engineers, Architects and Planners

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